## Practitioner's Docket No. 701039-052585

### **PATENT**

## IN THE UNITED STATES RECEIVING OFFICE

International Application Number	International Filing Date	International Earliest Priority Date
PCT/US03/10976	10 April 2003	11 April 2002
	10.04.03	11.04.02

U.S. SERIAL NO.

Sir:

10/511,009

TITLE OF INVENTION:

TNP-470 POLYMER CONJUGATES AND USE THEREOF

APPLICANT FOR DO/US:

CHILDREN'S MEDICAL CENTER CORPORATION:

SATCHI-FAINARO, Ronit; and FOLKMAN, Judah

**INVENTORS FOR DO/US:** 

SATCHI-FAINARO, Ronit; FOLKMAN, Judah

#### **CERTIFICATE OF MAILING**

I hereby certify that this correspondence, on the date shown below, is being deposited with the United States Postal Service with sufficient postage as Express Mail Label No. EL 948 122 419 US in an envelope addressed to MAIL STOP PCT, Commissioner of Patents, Box 1450, Alexandria, VA 22313-1450.

Date: 3/24/03

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### INFORMATION DISCLOSURE STATEMENT

In accordance with the provisions of 37 C.F.R. §§1.56 and 1.97, Applicants herewith submit the publications and/or patents shown on the attached form PTO-1449, for consideration by the Examiner in connection with the examination of the above-identified patent application.

International Application mber	International Filing Date	Internal Earliest Priority Date
PCT/US037-0-6	10 April 2003 10.04.03	11 April 2002 11.04.02

U.S. SERIAL NO.: 10/511,009

Date: 3/24/05

## **REMARKS**

In accordance with the provisions of 37 C.F.R. §1.97, this statement is being filed:

<u>X</u>	(1)	within three (3) months of the Filing Date or before the mailing date
		of the First Office Action on the merits; or
	(2)	within three months of the mailing date of the European Search
	•	Report; or
<u> </u>	(3)	after the period defined in (1) but before the mailing date of a Final
		Rejection or Notice of Allowance, and the requisite Certification or
		fee under Rule 1.17(p), namely \$180.00, is included herein; or
	(4)	after the mailing date of a Final Rejection or Notice of Allowance
		but before the payment of the Issue Fee, and the requisite
		Certification, petition, and petition fee are included herein.
It is	respectful	ly requested that each of the documents shown on the attached form(s)
PTO-1449 be	e made of	record in this application. Copies of these documents (CHECK ONE):
<u>X</u>	are en	closed herewith;
	a cop	y of the corresponding International Search Report from the parent
	applic	eation is enclosed herewith;
	have	been cited in the parent application, and are thus not being resubmitted
	hereir	1.

Early examination and allowance of the present application are respectfully solicited.

# FEE AUTHORIZATION

Should any fees associated with the submission be required, the Commissioner is authorized to charge the missing fee to our Deposit Account No. 50-0850. Any overpayments should be credited to said Deposit Account.

Respectfully submitted,

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David S. Resnick (Reg. 34,235)

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Substitute for form 1449 PTO	С	Complete if Known		
	Application Number	10/511,009		
INFORMATION DISCLOSURE	Filing Date	October 12, 2004		
STATEMENT BY APPLICANT	First Named Inventor	Ronit Satchi-Fainaro et al.		
	Art Unit	To be assigned		
(use as many sheets as necessary)	Examiner Name	To be assigned		
Sheet 1 of 6	Attorney Docket Number	701039-52585		

	U.S. PATENT DOCUMENTS						
Examiner tnitiats*	Cite No.1	Document Number  Number – Kind Code² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear		
	A1	US 5,164,410	11/17/1992	Kishimoto et al.	•		
	A2	US 5,166,172	11/24/1992	Kishimoto et al.			
	A3	US 5,180,735	01/19/1993	Kishimoto et al.			
	A4	US 5,180,738	01/19/1993	Kishimoto et al.			
	A5	US 5,290,807	03/01/1994	Folkman et al.			
	A6	US 5,698,586	12/16/1997	Kishimoto et al.			
	A7	US 6,017,954	01/25/2000	Folkman et al.			
•	A8	US 6,022,888	02/08/2000	Morishige et al.			
	A9	US 6,225,478	05/01/2001	Morishige et al.			
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Examiner Cite Initials* No.1	Cite	Foreign Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines			
	Country Code3 Number4 Kind Code5 (if known)	MM-DD-YYYY	Applicant Of Cited Document	Where Relevant Passages or Relevant Figures Appear	T°			
	B1	WO 01/97776	12/27/2001	Ishihara et al.	English Abstract			
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STA	STATEMENT BY APPLICANT			First Named Inventor	Ronit Satchi-Fainaro et al.
				Art Unit	To be assigned
	(use as many sheets as necessary)			Examiner Name	To be assigned
Sheet	2	of	6	Attorney Docket Number	701039-52585

1		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	C1_	Folkman, J., Angiogenesis. in <i>Harrison's Textbook of Internal Medicine</i> (eds. Braunwald, E. et al.) 517-530 (McGraw Hill, New York, 2001).	
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	C2	Hanahan, D. et al., Patterns and emerging mechanisms of the angiogenic switch during tumorigenesis, <i>Cell</i> , <b>86</b> :353-64 (1996).	
			<b>i</b>
	C3	Volpert, O.V. et al., Id1 regulates angiogenesis through transcriptional repression of thrombospondin-1, <i>Cancer Cell</i> , 2:473-483 (2002).	
	C4	Folkman, J., Tumor angiogenesis, <i>Cancer Medicine</i> (eds. Holland, J. et al.), pp. 132-152 (B. C. Decker Inc., Ontario, Canada, 2000).	
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-	C7	Chin, L. et al., Essential role for oncogenic Ras in tumour maintenance, <i>Nature</i> , <b>400</b> :468-472 (1999).	
	C8	Tabone, M.D. et al., Are basic fibroblast growth factor and vascular endothelial growth factor prognostic indicators in pediatric patients with malignant solid tumors?, <i>Clinical Cancer Res.</i> , 7:538-543 (2001).	
	C9	Yao, Y. et al., Prognostic value of vascular endothelial growth factor and its receptors Flt-1 and Flk-1 in astrocytic tumours, <i>Acta Neurochir (Wien)</i> , 143:159-66 (2001).	
	C10	Yuan, A. et al., Aberrant p53 expression correlates with expression of vascular endothelial growth factor mRNA and interleukin-8 mRNA and neoangiogenesis in non-small-cell lung cancer, J. Clinical Oncology, 20:900-910 (2002).	

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Signature		Considered	

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INFORMATION DISCLOSURE			LOSURE	Filing Date	October 12, 2004
STA	STATEMENT BY APPLICANT			First Named Inventor	Ronit Satchi-Fainaro et al.
				Art Unit	To be assigned
	(use as many sheets as necessary)			Examiner Name	To be assigned
Sheet	3	of	6	Attorney Docket Number	701039-52585

C11	Ingber, D. et al., Synthetic analogues of fumagillin that inhibit angiogenesis and suppress tumour growth, <i>Nature</i> , <b>348</b> :555-557 (1990).	
C12	Antoine, N. et al., AGM-1470, a potent angiogenesis inhibitor, prevents the entry of normal but not transformed endothelial cells into the G <sub>1</sub> phase of the cell cycle, <i>Cancer Res.</i> , 54:2073-2076 (1994).	
C13	Kudelka, A.P. et al., Complete remission of metastatic cervical cancer with the angiogenesis inhibitor TNP-470, N. Engl. J. Med., 338:991-2 (1998).	
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C15	Bhargava, P. et al., A Phase I and pharmacokinetic study of TNP-470 administered weekly to patients with advanced cancer, <i>Clinical Cancer Res.</i> , 5:1989-1995 (1999).	
C16	Herbst, R.S. et al., Safety and pharmacokinetic effects of TNP-470, an angiogenesis inhibitor, combined with paclitaxel in patients with solid tumors: evidence for activity in non-small-cell lung cancer, <i>J. Clinical Oncol.</i> , 20:4440-4447 (2002).	
C17	Kim, E.S. et al., Angiogenesis inhibitors in lung cancer. Curr. Oncol. Rep., 4:325-333 (2002).	
C18	Stadler, W.M. et al., Multi-institutional study of the angiogenesis inhibitor TNP-470 in metastatic renal carcinoma, <i>J. Clinical Oncol.</i> , <b>17</b> :2541-2545 (1999).	
C19	Logothetis, C.J. et al., Phase I trial of the angiogenesis inhibitor TNP-470 for progressive androgen-independent prostate cancer. <i>Clinical Cancer Res.</i> , 7:1198-1203 (2001).	
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C21	Schoof, D.D. et al., The influence of angiogenesis inhibitor AGM-1470 on immune system status and tumor growth in vitro, <i>Int. J. Cancer</i> , <b>55</b> :630-635 (1993).	

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Capacitor for form 11101.				Application Number	10/511,009	
INFORMATION DISCLOSURE				Filing Date	October 12, 2004	
STATEMENT BY APPLICANT			LICANT	First Named Inventor	Ronit Satchi-Fainaro et al.	
317	STATEMENT DI ATTEMANT			Art Unit	To be assigned	
	(use as many sheets as necessary)			Examiner Name	To be assigned	
Sheet 4 of 6		Attorney Docket Number	701039-52585			

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C22	Nagabuchi, E. et al., TNP-470 antiangiogenic therapy for advanced murine neuroblastoma, J. Pediatric Surg., 32:287-93 (1997).	
C23	Rihova, B. et al., Biocompatibility of N-(2-hydroxypropyl) methacrylamide copolymers containing adriamycin. Immunogenicity, and effect on haematopoietic stem cells in bone marrow in vivo and mouse splenocytes and human peripheral blood lymphocytes in vitro, <i>Biomaterials</i> , 10:335-342. (1989).	
C24	Seymour, L.W. et al., The pharmacokinetics of polymer-bound adriamycin, <i>Biochem. Pharmacol.</i> , 39:1125-1131 (1990).	
C25	Maeda, H. et al., Tumor vascular permeability and the EPR effect in macromolecular therapeutics: a review, <i>J. Controlled Release</i> , <b>65</b> :271-284 (2000).	
C26	Duncan, R. et al., Preclinical toxicology of a novel polymeric antitumour agent: HPMA copolymer-doxorubicin (PK1), <i>Human and Exp. Toxicology</i> , 17:93-104 (1998).	
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C28	Duncan, R. et al., Polymers containing enzymatically degradable bonds, 7. Design of oligopeptide side chains in poly [N-(2-hydroxypropyl)methacrylamide] copolymers to promote efficient degradation by lysosomal enzymes, <i>Makromol. Chem.</i> , <b>184</b> :1997–2008 (1983).	
C29	Foekens, J.A. et al., Prognostic significance of cathepsins B and L in primary human breast cancer. J. Clinical Oncol., 16:1013-1021 (1998).	
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C32	Greene, A.K. et al., Endothelial-directed hepatic regeneration after partial hepatectomy,  Ann. Surg., 237:530-535 (2003)	

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Sheet	5	of	6	Attorney Docket Number	701039-52585

C33	Drixler, T.A. et al., Liver regeneration is an angiogenesis- associated phenomenon, <i>Ann. Surg.</i> , 236:703-712 (2002).	
C34	Klein, S.A. et al., Angiogenesis inhibitor TNP-470 inhibits murine cutaneous wound healing, <i>J. Surg. Res.</i> , <b>82</b> :268-274 (1999).	
C35	Whalen, C.T. et al., Assay of TNP-470 and its two major metabolites in human plasma by high-performance liquid chromatography-mass spectrometry, <i>J. Chromatographic Sci.</i> , <b>40</b> :214-218 (2002).	
C36	Brocchini, S. et al., Polymer-Drug conjugates: drug release from pendent linkers. in <i>Encyclopaedia of controlled release</i> (ed. Mathiovitz, E.) 786-816 (New York: Wiley, 1999).	
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C40	Dvorak, H.F. et al., Identification and characterization of the blood vessels of solid tumors that are leaky to circulating macromolecules. <i>Am. J. Pathology</i> , 133:95-109 (1988).	
C41	Griffith, E.C. et al., Methionine aminopeptidase (type 2) is the common target for angiogenesis inhibitors AGM-1470 and ovalicin, <i>Chem. and Biol.</i> , 4, 461-471 (1997).	
C42	Auerbach, R. et al., Angiogenesis assays: problems and pitfalls, <i>Cancer Metastasis Rev.</i> , 19:167-172 (2000).	
C43	Seymour, L.W. et al., Hepatic drug targeting: phase I evaluation of polymer-bound doxorubicin., J. Clinical Oncol., 20:1668-1676 (2002).	

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Sheet 6 of 6		Attorney Docket Number	701039-52585			

	: '	Francis, G.E. et al., PEG-modified proteins. in Stability of Proteins Pharmaceuticals (Part	
	C44	B) (ed. Ahem TJ, M.M.) 235-263 (Plenum Press, New York, 1992).	
	C45	Ho, D.H. et al., Clinical pharmacology of polyethylene glycol-L-asparaginase, <i>Drug Metabolism Disposition</i> , <b>14:</b> 349-352 (1986).	•
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٠.	C49	Bhargava, P. et al., A Phase I and pharmacokinetic study of TNP-470 administered weekly to patients with advanced cancer, <i>Clinical Cancer Res.</i> , 5:1989-1995 (1999).	
	C50	Seymour, L.W. et al., The pharmacokinetics of polymer-bound adriamycin, <i>Biochemical Pharmacology</i> , <b>39:</b> 1125-1131 (1990).	
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	000	000 (122.1).	1
	C54	Folkman, J. Tumor angiogenesis. in <i>Accomplishments in cancer research</i> (eds. Wells, S.J. & Sharp, P.) 32-44 (Lippincott Williams & Wilkins, New York, 1998)	

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Signature	Considered	

<sup>\*</sup>EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.